A SYSTEM AND METHOD FOR VISUAL ANALYSIS AND EVALUATION OF COLOR SCALES ON MULTIPLE COMPUTER OUTPUT DEVICES

ABSTRACT

A system and method for evaluating color scales (also called color tables, color maps, or color

5   legends) is used in creating graphical representations of digital data, and where these graphical

representations are presented for viewing on color output devices such as electronic computer

displays, computer printers, etc. The problem of determining whether a particular viewing setup

preserves the perceptual ordering of a given color scales as follows: The color scale is applied to

a digital test pattern, and the resulting color-coded picture (also know as a "pseudo-colored"

10   picture) is then viewed and rated by a human observer.